

Figure 1

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices \tilde{A} and \tilde{B} , respectively. The x-axis for both panels is labeled "Number of non-zero elements" and ranges from 0 to 100,000. The y-axis is labeled "Frequency" and ranges from 0 to 10.

Panel A shows the distribution for \tilde{A} . The histogram has a peak frequency of approximately 9 at around 20,000 non-zero elements. There are several smaller peaks at higher values, up to 80,000.

Panel B shows the distribution for \tilde{B} . This distribution is much more concentrated than Panel A, with a very sharp peak at approximately 10,000 non-zero elements, reaching a frequency of about 10. There are very few non-zero elements beyond 20,000.

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